Title (en)

SYSTEM FOR PRODUCING A REINFORCING STRUCTURE FOR A TYRE WITH VOLUMETRIC CONTROL OF THE DIE

Title (de)

HERSTELLUNG EINER REIFENVERSTÄRKUNGSSTRUKTUR MIT DER VOLUMENREGELUNG DER MATRIX

Title (fr)

FABRICATION D'UNE STRUCTURE DE RENFORCEMENT POUR PNEUMATIQUE AVEC CONTROLE VOLUMETRIQUE DE LA MATRICE

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Application

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Abstract (en)

[origin: WO03101714A2] The invention relates to a device for producing a tyre reinforcing structure comprising wires which are disposed essentially parallel to one another, said device being intended to be used together with an essentially-toroidal element (1). According to the invention, the reinforcing structure is constructed gradually on the aforementioned toroidal element (1) by depositing hoops of wire side-by-side on the surface of the toroidal element along the desired trajectory for said wire. The inventive device consists of an assembler (5) comprising: an inlet which is used to receive the wires (2); a gumming chamber (50); a positive-displacement pump which is used to deliver a rubber composition inside the gumming chamber; and a strip delivery outlet (20), said strip comprising the wires which are connected by said rubber composition. The invention also includes a strip depositing device (4) comprising a reference frame in relation to which the toroidal element can be installed at a known position.

IPC 1-7

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